Date: Thu, 15 Jul 93 09:39:00 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #858
To: Info-Hams

Info-Hams Digest Thu, 15 Jul 93 Volume 93 : Issue 858

Today's Topics:

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 15 Jul 93 14:13:22 GMT
From: ogicse!uwm.edu!linac!att!cbnewsc!edw@network.UCSD.EDU
Subject: Communities that unduly restrict Amateur Radio operations
To: info-hams@ucsd.edu

Conway Yee writes:
> ... One measure
>of reasonableness is whether they NEED the license. Using this requirement,
>the answer is no. In order to access the repeater (or use the autopatch)
>there is no requirement for the club to have a copy of the license. Some
>have argued that the amateur accessing the autopatch is the control operator;
>as a control operator, the club NEEDS the license. This argument is false.

>The amateur accessing the autopatch is not the control operator. [If there
>are those who want to know the rational, I can post the reasons from Part 97].

necessary != reasonable

therefore: "not necessary" does not imply "not reasonable"

Date: Wed, 14 Jul 1993 22:42:14 GMT
From: yale.edu!nigel.msen.com!well!moon!pixar!mongo!bruce@yale.arpa
Subject: DJ-580 mod
To: info-hams@ucsd.edu

In article <21uomc$erj@tamsun.tamu.edu>, jlong@emcnext2.tamu.edu (James Long)
writes:

|> Previously it's been mentioned on the net that newer DJ-580's seem to have less
|> intermod problems than older units, and that Alino will "mod" the older units
|> free of charge - under warantee. (sounds good so far :-)
|>
|> I called Alinco this morning (7/13), to see what the turn around time was, and
|> in the course of the conversation, I was told there had not been any
|> manufacturing changes, but that they would reduce the front-end sensitivity of
|> my radio if I so desired. (Turn around - BTW - is 5 to 10 working days).

Wait another week and I'll have my radio back - we'll see how well it works.

They told me that they would "modify" the radio, without mentioning that they
would simply turn down the sensitivity. I did notice that pager transmitters
were unavoidable with the HT connected to an external antenna, so the R.F.
gain was probably much too high.

I suspect that if that makes any
difference in range, it will be more for "scanner" uses than for amateur radio.
I was able to hear much more than I could work before, and what I heard
was probably determined more by s/n at the antenna rather than the gain of the
R.F. stages.
                        Bruce KD6OTD

Date: 15 Jul 93 10:31:49 GMT
From: news!sun1.clark.net!andy@uunet.uu.net
Subject: DJ-580 TX/RX problem
To: info-hams@ucsd.edu

Sami Reijonen (squrppi@krk.fi) wrote:

: I had a similar problem once and after my dealer examined the rig he said
: that the antenna connector was broken inside the rig. I also managed
: (therefore) to blow up the main amplifier.. It was all in the warranty,
: and because the dealer was unable to replace the module (reason unknown) he
: sent me a brand new rig.

The BNC on the Alinco is a weak spot, especially if you are constantly
switching from duck to another antenna. On my unit, some play developed
on the connector, followed by a break in its solder bridge inside. I
resoldered the connector (it was a major pain to get to it), and after
I reassembled the unit, I put a thin ring of Super Glue around the
outside of the connector. It's not going anywhere now. Cosmetically,
the ring of glue isn't even noticable.

Date: Wed, 14 Jul 1993 16:43:09 GMT
From: pipex!sunic!news.funet.fi!fuug!krk!krksun.krk.fi!squrppi@uunet.uu.net
Subject: DJ-580 TX/RX problem
To: info-hams@ucsd.edu

: I have an Alinco DJ-580T that seems to be having a problem. SOMETIMES when
: I key up the radio, it indicates it is transmitting but does not. It
: won't even kick my linear amp into transmit. Also when the

I had a similar problem once and after my dealer examined the rig he said
that the antenna connector was broken inside the rig. I also managed
(therefore) to blow up the main amplifier.. It was all in the warranty,
and because the dealer was unable to replace the module (reason unknown) he
sent me a brand new rig.

: transmit problem is occuring the radio fails to receive anything, even
: when I know a station is transmitting on the frequency. I have
: tried various anttenas. No luck. One other piece of information...
: When the transmit problem occurs, the "ON AIR" indicator blinks
: instead of staying on. What does this indicate?

I don't know about that as I didn't check if my ON AIR blinked or not.
The blinking might indicate that SWR is too high and thus transmitting
is disabled. This is only a guess.

: The radio is still under warrenty so I could have Alinco fix it along
: with having them do the intermod fix (which I will do anyway), but

It would be better if our Finnish importer could do the intermod fix too,
as it would take several weeks for mail to travel from here to the US and
another weeks to return.

Connect 3141592653590/V93Ter/LapLAND/Mnp666/Vryfast

squrppi@krk.fi
OH2KEA (KP 20 KF)

Date: 15 Jul 93 14:16:35 GMT
From: news-mail-gateway@ucsd.edu
Subject: G5RV
To: info-hams@ucsd.edu

G5RV Antennas

>>The demon-mailer bounced my last two messages so these are combined.

>I have a shortened (51 ft) G5RV that really gets out on 20 and 40
>meters and but isn't all that great on 10 and 15 meters.
>Paul WB2OYC

>>Paul, I've been down the same road. I started with a G5RV and was
>>disappointed. I now have something akin to a G5RV and I am very
>>happy with it. Here's what I found:

Actually that is Jeff's antenna, not mine, Hi! I do use two G5RV's
however. One at my summer place in Va. and the other at home in SNJ.
The one at home is the "traditional" variety, homebrewed, and I do
use 300 ohm open wire line for the stub.

>>At and above the frequency that is a center-fed full-wave (18.4 MHz
>>for 51 feet), there is no broadside radiation to speak of. The
>>radiation tends to concentrate into four lobes instead of two like a
>>dipole. When I realized that fact and oriented my antenna
>>accordingly, far away signals started coming in like magic. If your
>>antenna runs North/South, your 10 meter radiation will be
>>approximately North-42 deg-East, North42West, South42East, and
>>South42west at a very low (12 deg) takeoff angle which will skip over
>>a lot of "local" areas on 10 meters. It has a gain around 8.7 dbi in
>>four directions. Oriented properly, those four directions will cover
>>most of the land area on this planet.

Jeff, lookie here! Good info!

>>TV twin-lead is not a good choice for this antenna. You need the
>>least lossy feed-line possible. Open-wire feed-line is best but 300

Amen!

>>ohm ladder-line is OK. G5RV antennas and all the variations do not
>>violate the laws of physics. A good antenna program will give you an
>>idea of what the impedence of an antenna is. You can use a Smith

Don't have any of these myself, but wonder what one you consider "good"?

>>Chart to estimate the impedence at the coax/twin-lead junction and
>>then at the end of the coax. It can be extremely high or extremely
>>low but it will not likely be 50 ohms resistive.

I'd say you can count on it NEVER being 50 ohms resistive, Har!

>The length of the shortened G5RV is 51 feet with 17 feet of ladder
>line to match it. I tried doing some calculations as to why 20 and 49
>load up so well. What I cam up with was that the 51 foot G5RV was a
>3/4 wave 20 meter antenna and a 3/8 wave 40 meter antenna. Strangely
>enough the antenna is 1 1/2 waves on 10 meters but doesn't seem to work
>all that well. This discussion got me to wondering what makes a antenna
>a good radiator outside of the height and ground effectsi? If height and
>ground is all that it took then a dummy load at 10000 feet would work great!
> Jeff Jones AB6MB

>>The 29.5 MHz feed-point impedence at the center of the antenna is
>>around 100+j10 which gives a 3/1 SWR on the 300 ohm line. Assuming a
>>.82 velocity factor in the 300 ohm line, the transformed impedence at
>>the end of 17' will be around 500+j400, a terrible match for 50 ohm
>>coax. SWR will be 18/1 in the coax so you will lose half your power
>>for every 50' of coax. A 1/1 balun won't change things... a 4/1
>>balun will give a better match on 10 meters but possibly a worse
>>match on some of the other bands.

The impedance is a bit higher than I thought, but look at all that
reactance! No wonder it doesn't do to well on 10 Jeff!

>>I learned all this the hard way and took time to understand the
>>theory afterward. I now run a 105' center-fed with 300 ohm
>>ladder-line directly into a balanced antenna tuner and it works
>>great. These antennas are usually non-resonant at the frequencies of
>>operation and have a very high SWR. A very high SWR is of no
>>consequence in a lossless transmission line so get as close to
>>lossless as possible. This precludes the use of coax like RG-58.

Amen again! The center-fed zepp is simply the best choice for multiband
operation. No problem here if you happen to want to use it on 30 for
example, vis-a-vis the G5RV! I used one just as you described for 20
years, and am about to put up another. Down comes the G5RV. And the

main reason is I'd like to do some 30 meter QRP, and right now I don't have an antenna that'll do it. If I still had the zepp up, it'd be sit down and do'er. I do make my zepp 130' long as I like the CW end of 75.

>>73, KG7BK, CECIL_A_MOORE@ccm.hf.intel.com at Internet_Gateway

>If your antenna is only 51 feet long total, then its not a G5RV.
>Rather, its an adaptation of the original design by someone else.
>73, Paul

>>Paul, AntennasWest publishes a 36 page $7 TechNote #124d on G5RV
>>antennas. In Table 2, they have "G5RV TYPE, Leg Length: Double Size
>>= 102', Full Size = 51.3', Half Size = 25.9', Quarter Size = 13.3'".
>>They have assumed there are different "types" and "sizes" of G5RV
>>antennas. I have an article written by G5RV, himself, that says it
>>is best not to use any coax on a G5RV antenna. The term "G5RV
>>Antenna" now seems to represent a whole family of variations. 73,
>>Cecil, KG7BK

OK, on the "whole family of variations"! I had no idea to tell you the truth and tend to think of the G5RV as 102' with the feedpoint in the center thru the famous (or is it infamous?) Q-section. Thats what I tend to think of as the "traditional" version. The shortened versions must be pretty recent adaptations of the theme.

73
Paul
WB2OYC
odonnellp@mar65.mar.ora.fda.gov
ar..

Date: 15 Jul 93 14:31:13 GMT
From: ogicse!uwm.edu!linac!att!cbnewsm!jeffj@network.UCSD.EDU
Subject: KA7QJY Components?
To: info-hams@ucsd.edu

In article <29482@ksr.com> jfw@ksr.com (John F. Woods) writes:
>I just got a flyer in the mail from "Dan's Small Parts And Kits", in
>Missoula MT. It apparently is Danny Stevig, who used to run KA7QJY Components,
>but now under a different name and a different state as well. Does anyone
>know what the deal is? I sent a letter a couple of days ago, and I think I'll
>call the old phone number tonight to see if he really has moved, but I
>wondered if any of the readers here knew the story.

Yes, Danny has moved! Here is his new address for anyone that want's it;

DAN'S SMALL PARTS AND KITS
1935 S. 3RD W. #1
MISSOULA, MT. 59801
PHONE/FAX 1-406-543-2872

Also should mention that he is carrying some kits now, such as the following,

40 meter Cubic Incher $12.50
Two-Fer Transmiter $22.50
Neophyte Receiver $22.95
20 meter Superhet transceiver $49.95, From Jan. QRP Quarterly, anyone have any info on this?
Little Joe Transmiter $17.50 without crystal
QRP crystals,14060, 3560,7040,7110,10.106 $5.00 each!

Shipping $3.75 per order, make check payable to Danny Stevig.

Don't work for him just a satisfied customer!

Jeff Jones
--
Jeff Jones AB6MB | OPPOSE THE NORTH AMERICAN FREE TRADE AGREEMENT!
jeffj@seeker.mystic.com | Canada/USA Free Trade cost Canada 400,000 jobs.
Infolinc BBS 415-778-5929 | Want to guess how many we'll lose to Mexico?

Date: Thu, 15 Jul 1993 04:54:42 GMT
From: csus.edu!netcom.com!netcomsv!bongo!julian@decwrl.dec.com
Subject: NEED: Brittish wire gauge !
To: info-hams@ucsd.edu

In article <1993Jul13.221605.29045@ida.liu.se> d91gerca@odalix.ida.liu.se (Gert Carlsson) writes:
>I need a brittish wire gauge !
>If anyone have it on a file, please post it to me !

The ARRL Handbook always has a wire guage table in it. It give American Wire Guage, Standard Wire Guage (British Wire Guage), and Metric. Buy a copy, it is filled with useful electronics info even if you are not an amateur.

If you want, you can also find this information in the book "Reference Data for Radio Engineers" Originally an ITT publication, now available from Howard Sams.

--
Julian Macassey, N6ARE julian@bongo.tele.com Voice: (213) 653-4495
Paper Mail: 742 1/2 North Hayworth Avenue, Hollywood, California 90046-7142

Date: 15 Jul 1993 00:37:05 GMT
From: alchemy.TN.Cornell.EDU!amy@tcgould.tn.cornell.edu
Subject: Needed: Source for battry for Zenith Minisport
To: info-hams@ucsd.edu

Help, the battery in my Zenith Minisport HD just died and I need a new one ASAP. Does anybody have a source for them? Please drop me a reply via email. Many thanks..

--Amy

Date: 15 Jul 93 13:02:42 GMT
From: news-mail-gateway@ucsd.edu
Subject: TS-50
To: info-hams@ucsd.edu

Is it true that the TS-50 draws 2 A at receive?

Gerrit, PA3BYA.

Date: 15 Jul 93 14:19:51 GMT
From: news-mail-gateway@ucsd.edu
Subject: TS50
To: info-hams@ucsd.edu

TS-50

Joe wrote the following:

>I haven't had experience myself, but have heard from two different
>people that it draws about 2 amps on receive, which would make it
>less than desireable for backpacking and portable battery-powered
>operation. I've been misinformed on other things before, though,
>so you might want to check this out for yourself before taking my
>second-hand word on it.

> -joe

Geez! Mine doesn't draw anywhere near "2 amps on receive"! More like .2 maybe (200 milli-amps). Two amps at 12.5 volts would be 25 watts! Somethings gotta be wrong! Was the radio hot with the little fan running perhaps? I recently ran the radio at 50W on battery power in Field Day. My battery is a 20amp hour motor-cycle battery made by Panasonic; lead acid, but of the sealed variety. I completed almost 200 Q's on CW, 40 meters and never did have to re-charge the dude! (Note that re-charging from the "mains" is not permitted during the Field Day period!)

I have set my back-light setting down to mid-range, but I wouldn't think that in itself would make that much difference. It might draw an amp or so at full audio volume, I haven't checked it. I will and post a note with what I find.

73
Paul
WB2OYC
odonnellp@mar65.mar.ora.fda.gov
ar..

Date: 15 Jul 93 13:57:13 GMT
From: news-mail-gateway@ucsd.edu
Subject: Tube wanted
To: info-hams@ucsd.edu

Did u try Fair radio sales in Ohio (419-227-6573) ? They might have these tubes and the sockets too.
Otherwise if u want to by NEW, try Richarson Electronics (don't have their tel no. handy).

Seth KC2WE

Date: 15 Jul 93 07:17:21 GMT
From: ogicse!uwm.edu!ux1.cso.uiuc.edu!howland.reston.ans.net!darwin.sura.net!rouge!cfm1471@network.UCSD.EDU
Subject: What does it take to fry RG-223
To: info-hams@ucsd.edu

In article <1993Jul12.203052.28923@kpc.com> nat@kpc.com (Natarajan Gurumoorthy) writes:
>
>   Could the Gary Coffman types find a hole in my thinking or show me

>the correct way to look at this problem.

Good one Nat, gooooood one!

Charlie

Date: 15 Jul 1993 01:24:49 GMT
From: swrinde!gatech!darwin.sura.net!news.larc.nasa.gov!grissom.larc.nasa.gov!
kludge@network.UCSD.EDU
Subject: What does it take to fry RG-223
To: info-hams@ucsd.edu

In article <CA6LC7.H9@hpcvsnz.cv.hp.com> tomb@lsid.hp.com (Tom Bruhns) writes:
>
>"Reference Data for Radio Engineers" has a chart of max power ratings
>of various RG cables in the 10-3000MHz range. RG-58, which will have
>essentially the same losses, and is constructed with the same
>dielectric, as RG-223, is rated at just over 300 watts at 30MHz.

Just as a datapoint, I have run 1KW through RG-58 at 28 MHz, without a
bit of trouble. Not even any noticeable warming during intermittent
service. You might want to go with a teflon insulation if you intend
on doing this regularly, though... I have seen 50KW run through a
teflon RG-8-style cable at a broadcast station whose heliax failed, and
it did the trick for a day or so until we could get new cable shipped in,
although it did get very warm to the touch, so there was definitely some
resistive loss in the process.
--scott
--
"C'est un Nagra. C'est suisse, et tres, tres precis."

Date: Thu, 15 Jul 1993 00:37:36 GMT
From: world!jdubin@decwrl.dec.com
To: info-hams@ucsd.edu

References <1993Jul14.123531.232@rsg1.er.usgs.gov>, <22106t$rho@panix.com>,
<1993Jul14.154248.19099@en.ecn.purdue.edu>T
Subject : Re: America's Technology Store (was: new Radio Shack HT)

n9ljx@en.ecn.purdue.edu (Scott A Stembaugh) writes:

>In article <22106t$rho@panix.com> schuster@panix.com (Michael Schuster) writes:
>>Someone on the Fidonet SW echo once posted a neat strategy for disposing of
>>Radio Shaft salesdroids.

>>
>>He said he carries in his pocket the most ancient, corroded, unusual looking
>>piece of hardware extracted from a turn-of-the-century radio. Whne hounded
>>by the sales type, he extracts this from his pocket, shoves it in his face, and
>>asks, "Do you have a replacement for THIS?". The salesdroid walks away mumbling
>>and he can then browse the store in peace.
>>
>>
>>--
>>Mike Schuster | schuster@panix.com | 70346.1745@CompuServe.COM

>Unfortunately they are a little more aggressive around here. I recently went
>in looking for a replacement telescopic whip for an old Bearcat xtal scanner.
>The salespuppy told me they didn't carry that style and that what I really
>needed to do was buy a new scanner! What a deal..try to make a $300 sale from
>someone who is looking to spend $1.50!

>--scott
>--
>Scott Stembaugh - N9LJX   internet: n9ljx@ecn.purdue.edu
>Operations Supervisor, ADPC   phone: 317 494 7946
>Purdue University
>West Lafayette, IN 47907-1061

Well, folks, I used to be the same way... and then I started to work there.
Admittedly, most RS employees don't know much electronic schtuff, think about
what would happen if RS employees were, say, hams or otherwise electronicly
inclined -- we wouldn't sell anything !!! We would be talking all day...
Anyway, save your flames, I know how it feels to be on both sides of the
counter. To be blunt, RS employees aren't there to help you -- they're there
to make money. (DISCLAIMER -- I really hope noone is stupid enough to believe
I speak for everyone - or anyone - who works for RS) When you get paid on
commission, you learn quickly to try to milk every sale you can.

Jeff Dubin
jdubin@world.std.com

--again-- don't flame... it's not worth the bandwith to tell everyone how
lousy RS's products are and service is. I think we all know from experience...

Date: 15 Jul 93 12:48:29 GMT
From: meaddata!robertp@uunet.uu.net
To: info-hams@ucsd.edu

References <21ucvb$c3u@gopher.cs.uofs.edu>,

<wb9omc.742588681@dynamo.ecn.purdue.edu>, <1993Jul14.104452.774@physc1.byu.edu>
Subject : Re: Communities that unduly restrict Amateur Radio operations

In article <1993Jul14.104452.774@physc1.byu.edu>, peterson@physc1.byu.edu writes:
|> In article <wb9omc.742588681@dynamo.ecn.purdue.edu>,
wb9omc@dynamo.ecn.purdue.edu (Duane P Mantick) writes:
|> > bill@cs.uofs.edu (Bill Gunshannon) writes:
|> >
|> >>And if you honestly believe that you (or any amateur operator) will be
|> >>missed for even a second, you are extremely naive. The general public
|> >>doesn't know who you are, what you are, or what you do. They get along
|> >>just fine now without you and their lives are no tlikely to end cause
|> >>you won't use your radio to help them. They can't miss what they don't
|> >>know exists.
|> >
|> >>bill   KB3YV
|> >
|> >   Bill, with all due respect, it is precisely this kind of attitude
|> > that isn't going to help one bit.
|> >
|> > "The general Public doesn't know who you are, what you are or what you do."
|> >
|> > That is nobodies fault but our own, and we can change that by getting
|> > ourselves some positive publicity. It just isn't that hard to do!
|> > We need to hit the newspapers every opportunity we get.
|> >
|>
|> I would just like to pass on some experiences with ARES here in Utah County,
|> Utah. I have only had my license since March and have been involved with
|> ARES literally since the day it came. ARES is shepherded somewhat by the
|> County Sherrif's office here under a group known as the SCAT team (Sherrif's
|> Communications Auxiliary). They have established emergency communications
|> centers in almost every public agency in the county. And after the recent
|> Response '93 simluated earthquake exercise there were 3 or 4 agencies that
|> asked that a center be established at their centers. The county has asked
|> ARES to establish a 911 system that goes by radio directly to the central
|> county dispatcher since the telephone-based system gets overloaded with
|> almost any widespread problem. They have selected one of the 3 repeaters
|> operated by ARES and SCAT and intend to widely announce this to the entire
|> ham community in both Utah and Salt Lake Counties in August (Salt Lake
|> County is included because this repeater is at about 8000' and has fairly
|> wide coverage). Amateur radio has a VERY good reputation in this area.
|> In fact, at a recent ARES meeting the Uinta National Forest fire supervisor
|> indicated that after a recent forest fire (ARES provides a lot of
|> communication support on forest fires here) the crisis management team
|> that was brought in to handle the fire wanted to take two groups of people
|> with them when they left - the SCAT and ARES hams and the Relief Society
|> (the Relief Society is the women's organization of the LDS church and they

|> caused the feds no end of headaches when they showed up at the fire with
|> a LOT of food to feed the fire fighters and the feds couldn't figure out
|> how to handle donated food).
|>
|> I really agree with those who advocate getting involved to show the
|> community that hams have some value. I am riding the coattails of a group
|> that has been developed over many years but the communities here are very
|> ham friendly - especially the local government agencies. They have seen
|> the hams provide service that has been very valuable and are not about to
|> hinder that resource. The fraction of hams that are actually involved
|> is unfortunately fairly low (250 on the ARES roster in an area where the
|> monthly testing session is passing about 25-50 Techs/month) but those who
|> are involved are keeping the governments on our side.
|>
|> Bryan Peterson, KB7TEW
|> Peterson@physc1.byu.edu

-- A story like this should be grabed up by ARRL's PR firm and put out on the
wire. This is really two storys, fighting a forest fire and setting up 911.
Stories like this need to be passed on to ARRL, sometimes we are our own worst
enemy.

|Robert D. Penrod | Excess on occasion is |
|Mead Data Central | Exhilarating |
|P.O. Box 933 | It prevents moderation from | robertp@meaddata.com
|Dayton, Ohio 45401 | acquiring the deadening | ...!uunet!meaddata!robertp
                     | effect of a habit. |

End of Info-Hams Digest V93 #858
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